

## Exercises

E9.71 [OSB] Prerequisites: [OQR]. Show that the set  $A \subset \mathbb{R}$  defined by

$$A = \{0\} \cup \{1/n : n \in \mathbb{N}, n \geq 1\} \cup \{1/n + 1/m : n, m \in \mathbb{N}, n \geq 1, m \geq 1\}$$

is compact; identify its accumulation points.

**Solution 1.** [OSC]